DEPARTMENT OF TRANSPORTATION
DIVISION OF ENGINEERING SERVICES
Office of Structural Materials
Quality Assurance and Source Inspection

Bay Area Branch
690 Walnut Ave.St. 150
Vallejo, CA 94592-1133
(707) 649-5453
(707) 649-5493

Contract #: 04-0120F4
Cty: SF/ALA Rte: 80 PM: 13.2/13.9
File #: 69.15

SOURCE INSPECTION REPORT

Resident Engineer: Siegenthaler, Peter
Address: 333 Burma Road
City: Oakland, CA 94607

Report No: SIR-003133
Date Inspected: 21-Mar-2011

Project Name: SAS Superstructure
Prime Contractor: American Bridge/Fluor Enterprises, a JV
Contractor: Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island

OSM Arrival Time: 700
OSM Departure Time: 1900
Location: Changxing Dao, Shangha

Quality Control Contact: Don Walton
Material transfer: ☐ Yes ☐ No ☑ N/A
Stock Transfer: ☐ Yes ☐ No ☑ N/A
Rebar Test Witness: ☐ Yes ☐ No ☑ N/A
Other: Coatings Inspection
Bridge No: 34-0006
Bid Item: 77,78,79

Quality Control Present: ☑ Yes ☐ No
Sampled Items: ☐ Yes ☐ No ☑ N/A
OK to Cut: ☐ Yes ☐ No ☑ N/A
Delayed/Cancelled: ☐ Yes ☑ No ☐ N/A
Component: Sub-Assemblies (OBG) and Sub-Assemblies (
Lot No:

Summary of Items Observed:

On this date Caltrans Office of Structural Materials (OSM) Quality Assurance (QA) NACE III coating inspector, Mr. Kenneth W. Cason Jr. arrived on site at the Zhenhua Port Machinery Company (ZPMC) facility at Changxing Island in Shanghai, China. The purpose of the coating inspections is to monitor the surface preparation and coating applications for the SAS Bay Bridge project. This QA NACE III coating inspector observed the following:

Sub-Assemblies (OBG)

Bike Path Panel BK4A-031, NOI Number 6020: In preparation for mist coat installation of Interfine 979 Polysiloxane, the Interzinc 22 undercoat on Bike Path Panel BK4A-031 was tested in accordance with SSPC-SP 1 (Surface Cleanliness). ASTM D4752 (MEK Resistance of Ethyl Silicate (Inorganic) Zinc-Rich Primers by Solvent Rub) was also conducted. Test results recorded x1 soluble salts reading of 6.2 (µs/cm) and x1 MEK @ grade 5. No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Splices X3271G (58 Each), 3271J (19 Each), 3271T (18 Each), Shim Plates X3307C (32 Each), X321E (74 Each), Channels (20 Each) and Anchor Bearing Blocks (26 Each), NOI Number 6021: In accordance with project specifications ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on Splices X3271G (58 Each), 3271J (19 Each), 3271T (18 Each), Shim Plates X3307C (32 Each), X321E (74 Each), Channels (20 Each) and Anchor Bearing Blocks (26 Each) for dry film thickness (DFT) compliance. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to defects (low DFT readings and holidays) in the applied Interzinc 22 undercoat.

Maintenance Traveler Rails 20TR2-039 and 20TR-040, NOI Number 6021: In accordance with project specifications ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on Maintenance Traveler Rails 20TR2-039 and 20TR-040 for dry film thickness (DFT) compliance. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to defects (low DFT readings and holidays) in the applied Interzinc 22 undercoat.

Splices X3271G (58 Each), 3271J (19 Each), 3271T (18 Each), Shim Plates X3307C (32 Each), X321E (74 Each), Channels (20 Each) and Anchor Bearing Blocks (26 Each), NOI Number 6022: In accordance with project specifications ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on Splices X3271G (58 Each), 3271J (19 Each), 3271T (18 Each), Shim Plates X3307C (32 Each), X321E (74 Each), Channels (20 Each) and Anchor Bearing Blocks (26 Each) for dry film thickness (DFT) compliance. ABF Quality Assurance personnel instructed ZPMC to re-submit for inspection due to wet Interzinc 52 on substrate.

Splices (166 Each), NOI Number 6023: In preparation for undercoat installation and in accordance with project specifications, this inspector along with ABF and ZPMC Quality Assurance/Control representatives observed the surface preparation on Splices (166 Each). Test results recorded x3 surface profile readings of 79 to 85 µm. No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

OBG Assembly Plates DP3062A, DP3063A, DP3064A, DP3172, DP3173 and DP3174, NOI Number 6024: In accordance with project specifications ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on OBG Assembly Plates DP3062A, DP3063A, DP3064A, DP3172, DP3173 and DP3174 for dry film thickness (DFT) compliance. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to defects low DFT readings in the applied Interzinc 22 undercoat.

Splices X3271G (58 Each), 3271J (19 Each), 3271T (18 Each), Shim Plates X3307C (32 Each), X321E (74 Each), Channels (20 Each), Anchor Bearing Blocks (26 Each), L-Splices X4975C (19 Each), Diaphragms SA8509 and SA8510, NOI Number 6525: In accordance with project specifications ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on Splices X3271G (58 Each), 3271J (19 Each), 3271T (18 Each), Shim Plates X3307C (32 Each), X321E (74 Each), Channels (20 Each), Anchor Bearing Blocks (26 Each), L-Splices X4975C (19 Each), Diaphragms SA8509 and SA8510 for dry film thickness (DFT) compliance. No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Sub-Assemblies (Tower)

I-Beams SA3173 and SA3174, NOI Number T2021: In accordance with project specifications, ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on I-Beams SA3173 and SA3174 in preparation for blasting operations. No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Office

SOURCE INSPECTION REPORT

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This Quality Assurance Inspector (QA) reviewed, recorded and entered data from notice of inspection requests for the purpose of tracking and compliance to contract documents.

Note: Unless otherwise noted, all work observed on this date appeared to generally comply with applicable contract documents.

Summary of Conversations:

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact , who represents the Office of Structural Materials for your project.

Inspected By:	Cason,Kenneth	Quality Assurance Inspector
Reviewed By:	Miller,Mark	QA Reviewer